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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/883,598	06/18/2001	Pavitra Subramaniam	5306P033	1999

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EXAMINER

LU, KUEN S

ART UNIT	PAPER NUMBER
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2167

DATE MAILED: 10/20/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No. 09/883,598	Applicant(s) SUBRAMANIAM ET AL.	
	Examiner Kuen S. Lu	Art Unit 2167	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 28 July 2005.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-8, 10-25 and 27-31 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-8, 10-25 and 27-31 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| Paper No(s)/Mail Date <u>#1 5/2/2005</u> | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Response to Amendments

1. The Action is responsive to the Applicant's Amendments, filed on July 28, 2005.
2. The Information Disclosure Statement, filed on May 2, 2005, is acknowledged and signed by the Examiner.
3. The Applicant's amendments made to claims 1 and 16 are noted and the Examiner's 35 USC § 112, the second paragraph rejections to the claims is hereby withdrawn.
4. Claims 1-8, 10-25 and 27-31 are pending.
5. As for the Applicant's Remarks on claim rejections, filed on July 28, 2005, has been fully considered by the Examiner, please see discussion in the section ***Response to Arguments***, following the Office Action for non-Final Rejection.

Claim Rejections - 35 USC § 103

6. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

7. Claims 1-8, 10-25 and 27-31 are rejected under 35 U.S.C. 103(a) as being unpatentable over Dessloch et al. (U.S. Patent 6,386,056, hereafter "Dessloch") and

further in view of Underwood (U.S. Patent 6,718,535) and Polizzi et al. (U.S. Patent 6,643,661, hereafter "Polizzi").

As per claims 1, 10, 16 and 27, Underwood teaches the following:
"receiving search criteria" (See Fig. 4, element 400, col. 23, lines 19-28 and col. 25, lines 19-20 wherein Dessloch's search input for serving as a search criteria is equivalent to Applicant's receiving search criteria);
"defining an index field map object to map" object identifier to "one or more result fields associated with a search engine, the index field map object including an index field type" (See col. 3, lines 33-38 wherein Dessloch's search engine manages database index to map object identifiers associated with the non-traditional data to relational row data identifiers is equivalent to the Applicant's defining an index field map object to map object identifier to "one or more result fields associated with a search engine, the index field map object including an index field type).

The Dessloch reference does not specifically teach the mapping is to map "one or more business components".

However, Underwood teaches business objects mapping (See cols. 30 - lines 58-60, 31 - lines 1-40, 37 - lines 40-50, 113 - lines 20-23 and 120 - lines 35-43 wherein Underwood's view service captures user entry and business component, AFViewBOMapping component maps user interface entry field and the business component instances and persistence framework further maps business component

object to a database table and data retrieval is through the indexes constructed on data fields is equivalent to Applicant's business objects mapping).

It would have been obvious to one having ordinary skill in the art at the time of the applicant's invention was made to combine Underwood's teaching with the Dessloch reference by extending index to support content specific search engine in a e-commerce based activity framework because both references are directed to enterprise web-computing system, the combined reference would have enabled e-commerce based activity framework to flexibly utilize both structured and semi-structured data simultaneously in the enterprise-wide computer such that user could have retrieved information in a standardized and easy-to-learn format via less complex and faster interfaces.

The combined teaching of Underwood and Dessloch references further teaches "at least one attached document for data records matching the search criteria using the search engine" "the file system storing the at least one attached document" (Dessloch: at Fig. 1 and col. 8, lines 39-57 wherein Dessloch's contain function is defined and invoked when external search engine is called with name of index where the engine returns a set of document identifiers is equivalent to the Applicant's at least one attached document for data records matching the search criteria using the search engine ... the file system storing the at least one attached document).

The combined teaching of Underwood and Dessloch references does not specifically teach using "the index field type indicates the search is to be performed on a file system".

However, Polizzi teaches performing a search “the index field type indicates the search is to be performed on a file system” (See Figs. 1, 3 and col. 3, lines 10-25 wherein Polizzi’s portal system identifies relational or unstructured data sources to be searched and utilizes search parameters to search objects assigned to categories and sub-categories to fine tune searching on specific files is equivalent to Applicant’s the index field type indicates the search is to be performed on a file system).

It would have been obvious to one having ordinary skill in the art at the time of the applicant’s invention was made to combine Polizzi’s teaching with the Underwood and Dessolch references by implementing portal system in a e-commerce based activity framework because both references are directed to both structured and non-structured data search, the combined teaching of the references would have enabled e-commerce based activity framework to utilize both structured and unstructured data simultaneously in the enterprise-wide computer such that user could have retrieved information in a standardized and easy-to-learn format via less complex and faster interfaces.

The combined teaching of the Polizzi, Underwood and Dessolch references further teaches “generating search results comprising of the data records matching the received search criteria” (See Dessolch: at Fig. 4, elements 404-408 and col. Col. 25, lines 26-40 wherein Dessloch’s search query is compiled, parsed to generate execution plan, plan executed and result returned is equivalent to Applicant’s generating search results comprising of the data records matching the received search criteria).

As per claim 21, Dessolch teaches the following:

"a user interface to receive search criteria entered by a user" (See Fig. 4, element 400, col.3, lines 2023, col. 23, lines 19-28 and col. 25, lines 19-20 wherein Dessloch's user interface is implemented for user to input search is equivalent to Applicant's a user interface to receive search criteria entered by a user); and

"a search engine associated with one or more result fields, the one or more result fields are mapped to" "components by an index field map object, the index field map object including an index field type" (See col. 3, lines 33-38 wherein Dessloch's search engine manages database index to map object identifiers associated with the non-traditional data to relational row data identifiers is equivalent to the Applicant's a search engine associated with one or more result fields, the one or more result fields are mapped to components by an index field map object, the index field map object including an index field type).

The Dessloch reference does not specifically teach the mapping is to map "one or more business components".

However, Underwood teaches business objects mapping (See cols. 30 - lines 58-60, 31 - lines 1-40, 37 - lines 40-50, 113 - lines 20-23 and 120 - lines 35-43 wherein Underwood's view service captures user entry and business component, AFViewBOMapping component maps user interface entry field and the business component instances and persistence framework further maps business component object to a database table and data retrieval is through the indexes constructed on data fields is equivalent to Applicant's business objects mapping).

It would have been obvious to one having ordinary skill in the art at the time of the Applicant's invention was made to combine Underwood's teaching with the Dessloch reference by extending index to support content specific search engine in a e-commerce based activity framework because both references are directed to enterprise web-computing system, the combined reference would have enabled e-commerce based activity framework to flexibly utilize both structured and semi-structured data simultaneously in the enterprise-wide computer such that user could have retrieved information in a standardized and easy-to-learn format via less complex and faster interfaces.

The combined teaching of Underwood and Dessolch references further teaches "at least one attached document for data records matching the search criteria using the search engine" (See Dessolch: at Fig. 1 and col. 8, lines 39-57 wherein Dessloch's contain function is defined and invoked when external search engine is called with name of index where the engine returns a set of document identifiers is equivalent to the Applicant's at least one attached document for data records matching the search criteria using the search engine).

The combined teaching of Underwood and Dessolch references does not specifically teach the at least one attached document for data records matching the search criteria using the search engine is "based on a value of the index field type".

However, Polizzi teaches performing a search the at least one attached document for data records matching the search criteria using the search engine is "based on a value of the index field type" (See Figs. 1, 3 and cols. 3 - lines 10-25, 4 - lines 44-54 and 10 -

lines 46-57 wherein Polizzi's portal system identifies relational or unstructured data sources to be searched and utilizes search parameters to search objects assigned to categories and sub-categories to fine tune searching on specific files is equivalent to Applicant's performing a search at least one attached document for data records matching the search criteria using the search engine if the index field type indicates the search is to be performed on a file system, the file system storing the at least one attached document).

It would have been obvious to one having ordinary skill in the art at the time of the Applicant's invention was made to combine Polizzi's teaching with the Underwood and Dessolch references by implementing portal system in a e-commerce based activity framework because both references are directed to both structured and non-structured data search, the combined teaching of the references would have enabled e-commerce based activity framework to utilize both structured and unstructured data simultaneously in the enterprise-wide computer such that user could have retrieved information in a standardized and easy-to-learn format via less complex and faster interfaces.

The combined Polizzi, Underwood and Dessolch references further teaches "a Virtual Business Component (VBC) to receive the search criteria from the user interface if the user requested a search on at least one external database" (See Polizzi: Fig. 1 and col. 4 - lines 26-43 wherein Polizzi's portal system brokering services agents to perform search is equivalent to Applicant's a Virtual Business Component, and Underwood: Figs. 83-85 and cols. 225 - lines 13-29 and 226 - lines 23-57 wherein Underwood's user entering criteria on the tracker window for tracking and searching e-commerce issues

from databases is equivalent to Applicant's receiving the search criteria from the user interface if the user requested a search on at least one external database).

As per claims 2, 17 and 22, the combined Polizzi, Underwood and Dessolch references further teaches "receiving search criteria further comprises receiving at least one search category entered by a user" (See Polizzi: at Fig. 3 and cols. 3 - lines 10-20 and 10 - lines 46-57 wherein Polizzi's searches are performed based on categories, subcategories, parameters, objects and locations selected is equivalent to Applicant's receiving search criteria further comprises receiving at least one search category entered by a user).

As per claims 3, 18 and 23, the combined Polizzi, Underwood and Dessolch references further teaches "receiving search criteria further comprises receiving at least one search keyword entered by a user" (See Polizzi: at col. 14 - lines 41-44 wherein Polizzi's keywords are used to make the job easier to find by a user using the search feature of the portal is equivalent to Applicant's receiving search criteria further comprises receiving at least one search keyword entered by a user).

As per claim 28, the combined Polizzi, Underwood and Dessolch references further teaches "receiving search criteria further comprises receiving at least one search category and at least one search keyword" (See Polizzi: at Fig. 3 and cols. 3 - lines 10-20, 10 - lines 46-57 and 14 - lines 41-44 wherein Polizzi's searches are performed

based on categories, subcategories, parameters, objects and locations selected and keywords are used to make the job easier to find by a user using the search feature of the portal is equivalent to Applicant's receiving search criteria further comprises receiving at least one search category and at least one search keyword).

As per claims 4, 11 and 31, the combined Polizzi, Underwood and Dessolch references further teaches "passing the received search criteria to a Virtual Business Component (VBC) if the single search is to be performed on at least one external database" (See Polizzi: at Fig. 1 and col. 4 - lines 44-65 wherein Polizzi's users perform search via network and web client and passing the search to portal to perform on external databases is equivalent to Applicant's passing the received search criteria to a Virtual Business Component (VBC) if the single search is to be performed on at least one external database).

As per claims 5 and 12, the combined Polizzi, Underwood and Dessolch references further teaches "passing the received search criteria from the Virtual Business Component to a search execution business service" (See Polizzi: Fig. 1 and col. 4 - lines 44-65 wherein Polizzi's users perform search via network and web client and passing the search to portal to perform on external databases is equivalent to Applicant's passing the received search criteria from the Virtual Business Component to a search execution business service).

As per claims 6, 13 and 24, the combined Polizzi, Underwood and Dessolch references further teaches "using a search execution business service to search the plurality of databases for data records matching the search criteria" (See Polizzi: at Fig. 3 and cols. 3 - lines 10-20, 10 - lines 46-57 and 14 - lines 41-44 wherein Polizzi's searches are performed based on categories, subcategories, parameters, objects and locations selected and keywords are used to make the job easier to find by a user using the search feature of the portal is equivalent to Applicant's using a search execution business service to search the plurality of databases for data records matching the search criteria); and

"using the search execution business service to search the at least one attached document in the file system for data record-s matching the search criteria" (See Polizzi: at Figs. 1, 3 and cols. 3 - lines 10-25, 4 - lines 44-54 and 10 - lines 46-57 wherein Polizzi's portal system identifies unstructured data sources to be searched and utilizes search parameters to search objects assigned to categories and sub-categories to fine tune searching on specific files is equivalent to Applicant's using the search execution business service to search the at least one attached document in the file system for data record-s matching the search criteria).

As per claims 7, 14, 19, 25 and 29, the combined Polizzi, Underwood and Dessolch references further teaches "sending the search results to a frame so that the search results can be listed on a user interface" (See Underwood: at Figs. 84-85 wherein Underwood's windows list details of issue log returned from search is equivalent to

Applicant's sending the search results to a frame so that the search results can be listed on a user interface).

As per claims 8, 15, 20 and 30, the combined Polizzi, Underwood and Dessolch references further teaches "displaying content of a search result selected from the search results listed on the user interface" (See Polizzi: at Fig. 10 wherein Polizzi's web browser displays portal page is equivalent to Applicant's displaying content of a search result selected from the search results listed on the user interface).

Response to Arguments

8. The Applicant's arguments filed on July 28, 2005, have been considered but they are moot on new grounds of rejection.

9. The prior art made of record

H. U.S. Patent No. 6718535

I. U.S. Patent No. 6643661

K. U.S. Patent No. 6338056

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

A. U.S. Pub. No. 2002/0169771

B. U.S. Patent No. 6070160

C. U.S. Pub. No. 2002/0147704

D. U.S. Patent No. 6401118
E. U.S. Pub. No. 2002/0156779
F. U.S. Patent No. 6553310
G. U.S. Pub. No. 2002/0138481
J. U.S. Patent No. 6026398

Conclusions

Response to Arguments

10. The Applicant's arguments filed on July 28, 2005 have been fully considered, but they are moot on new grounds of rejection.

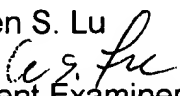
Contact information

11. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kuen S. Lu whose telephone number is (571) 272-4114. The examiner can normally be reached on Monday-Friday (8:30 am-5:30 pm). If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jean R. Homere, Esq. can be reached on (571) 272-3780. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for Page 13 published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only.

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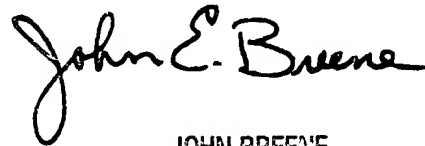
For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 886-217-9197 (toll-free).

Kuen S. Lu

Patent Examiner

October 14, 2005

Jean R. Homere, Esq.
Supervisory Patent Examiner

October 14, 2005



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